Copeia, 1998(4), pp. 1163–1170

CONTENTS—1998, NOS. 1–4

ADAMS, DEAN C. (*see* CALDECUTT, WILLIAM J.)
AIZAWA, MASAHIRO (*see* NAKABO, TETSUJI)
AKIN, JONATHAN A. Fourier series estimation of ground skink population density 519
ALBERCH, P. (*see* GARCÍA-PARÍS, M.)
ALBERDI, ANTONIO J. (*see* LOPES, PABLO A.)
ALCOBENDAS, M. (*see* GARCÍA-PARÍS, M.)
ALDRIDGE, ERON (*see* MABEE, PAULA M.)
ALTENBACH, CHRISTOPHER S. (*see* PLATANIA, STEVEN P.)
AMMERMAN, LOREN K. (*see* CHIPPENDALE, PAUL T.)
ANDERSON, ALLISON A., AND WILLIAM H. NEILL. Thermal preference of tailwater versus nontailwater populations of *Etheostoma spectabile* 226
ANDERSON, WILLIAM D., JR. The bone sharp: the life of Edward Drinker Cope, by Jane Pierce Davidson 817
ANDREONE, FRANCO (*see* GUARINO, FABIO M.)
ANDREONE, FRANCO (*see* NUSSBAUM, RONALD A.)
ANGELINI, FRANCESCO (*see* GUARINO, FABIO M.)
ANGILLETTA, MICHAEL J., JR., AND YEHUDAH L. WERNER. Australian geckos do not display diel variation in thermoregulatory behavior 736
ARESCO, MATTHEW J., AND CRAIG GUYER. Efficacy of using scute annuli to determine growth histories and age of *Gopherus polyphemus* in southern Alabama 1094
ARMBRUSTER, JOHNATHAN W. Modifications of the digestive tract for holding air in loricariid and scoloplacid catfishes 663
ARMBRUSTER, JONATHAN W. Phylogenetic relationships of the suckermouth armored catfishes of the *Rhinelepis* group (Loricariidae: Hypostominae) 620
ARRATIA, GLORIA. Basal teleosts and teleostean phylogeny: response to C. Patterson 1109
AVILA-PIRES, TERESA C. S. (*see* VITT, LAURIE J.)
BARANDUN, JONAS, AND HEINZ-ULRICH REYER. Reproductive ecology of *Bombina variegata*: habitat use 497
BARKER, L. A., B. J. MORRISON, B. J. WICKS, AND F. W. H. BEAMISH. Potential fecundity of landlocked sea lamprey larvae *Petromyzon marinus*, with typical and atypical gonads 1070
BARLOW, STEVEN B. (*see* MABEE, PAULA M.)
BASS, ANNA L., CYNTHIA J. LAGUEUX, AND BRIAN W. BOWEN. Origin of green turtles, *Chelonia mydas*, at "Sleeping Rocks" off the northeast coast of Nicaragua 1064
BAUER, AARON M., AND INDRANEIL DAS. New species of *Cnemaspis* (Reptilia: Gekkonidae) from southeastern Thailand 439
BEAMISH, F. W. H. (*see* BARKER, L. A.)
BEAUPRE, STEVEN J. The garter snakes, evolution and ecology, by Douglas A. Rossman, Neil B. Ford, and Richard A. Seigel 252
BEAUPRE, STEVEN J., DAVID DUVALL, AND JACK O'LEILE. Ontogenetic variation in growth and sexual size dimorphism in a central Arizona population of the western diamondback rattlesnake (*Crotalus atrox*) 40
BELL, ALISON M. (*see* HOUCK, LYNNE D.)
BENGSTON, LYNN (*see* FITE, KATHERIN V.)
BENNETT, R. AVERY (*see* BJORNDAL, KAREN A.)
BERTELSEN, E., AND THEODORE W. PIETSCH. Revision of the deepsea anglerfish genus *Rhynchactis* Regan (Lophiiformes: Gigantactinidae), with descriptions of two new species 583
BIELAWSKI, JOSEPH P. (*see* SCHMIDT, TIMOTHY R.)
BINCKLEY, CHRISTOPHER A., JAMES R. SPOTILA, KATHRYNE S. WILSON, AND FRANK V. PALADINO. Sex determination and sex ratios of Pacific leatherback turtles, *Dermochelys coriacea* 291
BJORNDAL, KAREN A., ALAN B. BOLTEN, R. AVERY BENNETT, ELLIOTT R. JACOBSON, THOMAS J. WRONSKI, JENNIFER J. VALESKI, AND PETER J. ELIAZAR. Age and growth in sea turtles: limitations of skeletochronology for demographic studies 23
BLAUSTEIN, ANDREW (*see* FITE, KATHERIN V.)
BLINN, DEAN W., JAMES WHITE, THOMAS PRADETTO, AND JOHN O'BRIEN. Reproductive ecology and growth of a captive population of Little Colorado spinedace (*Lepidomeda vittata*: Cyprinidae) 1010
BLOB, RICHARD W. Evaluation of vent position from lizard skeletons for estimation of snout-vent length and body mass 792
BOLTEN, ALAN B. (*see* BJORNDAL, KAREN A.)
BORDEN, W. CALVIN. Phylogeny of the unicornfishes (*Naso*, Acanthuridae) based on soft anatomy 104
BOWEN, BRIAN W. (*see* BASS, ANNA L.)
BOYD, GINNY L., AND GLENN R. PARSONS. Swimming performance and behavior of golden shiner, *Notemigonus crysoleucas*, while schooling 467
BRAINERD, ELIZABETH L., AND SHEILA N. PATEK. Vertebral column morphology, c-start curvature, and the evolution of mechanical defenses in tetraodontiform fishes 971
BRANCH, WILLIAM R. (*see* SHINE, RICHARD)

BRAUN, MICHAEL J. (*see* GLENN, TRAVIS C.)
BRITSON, CAROL A. Predatory responses of largemouth bass (*Micropterus salmoides*) to conspicuous and cryptic hatchling turtles: a comparative experiment 383
BROOKS, RONALD J. (*see* LITZGUS, JACQUELINE D.)
BURKEY, ALBERT J. (*see* HARDING, JULIANA M.)
BUSHAR, LAURETTA M., HOWARD K. REINERT, AND LARRY GELBERT. Genetic variation and gene flow within and between local populations of the timber rattlesnake, *Crotalus horridus* 411
BYLES, RICHARD (*see* WIBBELS, THANE)
CALDECUTT, WILLIAM J., AND DEAN C. ADAMS. Morphometrics of tropic osteology in the threespine stickleback, *Gasterosteus aculeatus* 827
CAMPBELL, JONATHAN A. (*see* CHIPPENDALE, PAUL T.)
CARREÑO, CARRIE A., AND REID N. HARRIS. Lack of nest defense behavior and attendence patterns in a joint nesting salamander, *Hemidactylium scutatum* (Caudata: Plethodontidae) 183
CASTILLA, AURORA M., VICTOR FERNANDEZ-PEDROSA, D. JAMES HARRIS, ANA GONZALEZ, AMPARO LATORRE, AND ANDRES MOYA. Mitochondrial DNA divergence suggests that *Podarcis hispanica atrata* (Squamata: Lacertidae) from the Columbretes Islands merits specific distinction 1037
CHALOUPKA, MILANI. Polyphasic growth in pelagic loggerhead sea turtles 516
CHAPLEAU, FRANCOIS (*see* Cooper, J. Andrew)
CHAPMAN, COLIN A. (*see* CHAPMAN, LAUREN J.)
CHAPMAN, LAUREN J., AND COLIN A. CHAPMAN. Hypoxia tolerance of the mormyrid *Petrocephalus catostoma*: implications for persistence in swamp refugia 762
CHEN, SZU-LUNG (*see* OTA, HIDETOSHI)
CHEN, TIEN-HIS, AND KUANG-YANG LUE. Ecology of the Chinese stripe-necked turtle, *Ocadia sinensis* (Testudine: Emydidae), in the Keelung River, northern Taiwan 944
CHIPPENDALE, PAUL T., ANDREW H. PRICE, AND DAVID M. HILLIS. Systematic status of the San Marcos salamander, *Eurycea nana* (Caudata: Plethodontidae) 1046
CHIPPENDALE, PAUL T., LOREN K. AMMERMAN, AND JONATHAN A. CAMPBELL. Molecular approaches to phylogeny of *Abronia* (Anguidae: Gerrhonotinae), with emphasis on relationships in subgenus *Auriculabronia* 883
CHONG, CHARLES (*see* GREENFIELD, DAVID W.)
CHOTKOWSKI, M. A. (*see* POLIVKA, K. M.)
CHU, LING-RU (*see* LOSOS, JONATHAN B.)
CLARK, JAMES M. Ancient marine reptiles, edited by J. M. Calloway and E. L. Nicholls 256
CLARKE, BRETT (*see* MEYERS, RON A.)
CLARKE, THOMAS A. Pelagic fishes of the genus *Eustomias* (Melanostomiidae) presently associated with *Eustomias achirus* Parin and Pokhilskaya, with the description of five new species 676
CLIFTON, KARI B., AND PHILIP J. MOTTA. Feeding morphology, diet, and ecomorphological relationships among five Caribbean labrids (Teleostei, Labridae) 953
COBURN, MILES M., AND PAUL G. GRUBACH. Ontogeny of the Weberian apparatus in the armored catfish *Corydoras paleatus* (Siluriformes: Callichthyidae) 301
COLE, CHARLES J. (*see* DOHM, MICHAEL R.)
COLEMAN, RONALD M., AND ALISON P. GALAVANI. Egg size determines offspring size in neotropical cichlid fishes (Teleostei: Cichlidae) 209
COLLAZO, ANDRES (*see* MARKS, SHARYN B.)
CONDER, JASON M. (*see* FOX, STANLEY F.)
CONGDON, JUSTIN D. (*see* GIBBONS, J. WHITFIELD)
CONGDON, JUSTIN D. (*see* ROWE, CHRISTOPHER L.)
COOPER, J. ANDREW, AND FRANCOIS CHAPLEAU. Phylogenetic status of *Paralichthodes algoensis* (Pleuronectiformes: Paralichthodidae) 477
CORCORAN, JIM (*see* JANSSEN, JOHN)
COZZI, JOSEPH R. (*see* KONSTANTINOU, HERA)
CRAFTS, HEATHER M. (*see* FROST, DARREL R.)
CROTHER, BRIAN I. (*see* THOMPSON, J. SCOTT)
CUA, DIANE S. (*see* MABEE, PAULA M.)
DAS, INDRANEIL (*see* BAUER, AARON M.)
DAVIS, WILLIAM P. Fishes of the continental waters of Belize, by D. W. Greenfield and J. E. Thomerson 528
DE SÁ, RAFAEL O. The biology of *Xenopus*, edited by R. C. Tinsley and K. C. Kobel 528
DELBOS, BRENDAN C. (*see* FUIMAN, LEE A.)
DERGAM, JORGE A. (*see* LOPES, PABLO A.)
DESSAUER, HEBERT C. (*see* GLENN, TRAVIS C.)
DOHM, MICHAEL R., THEODORE GARLAND JR., CHARLES J. COLE, AND CAROL R. TOWNSEND. Physiological variation and allometry in western whiptail lizards (*Cnemidophorus tigris*) from a transect across a persistent hybrid zone 1

DOUGHTY, PAUL, AND MICHAEL B. THOMPSON. Unusual reproductive patterns in the Australian marbled gecko (*Phyllodactylus marmoratus*) 747
DOUGLAS, MICHAEL E., AND PAUL C. MARSH. Population and survival estimates of *Catostomus latipinnis* in northern Grand Canyon, with distribution and abundance of hybrids with *Xyrauchen texanus* 915
DOYLE, KEVIN D. Phylogeny of the sand stargazers (Dactyloscopidae: Blennioidei) 76
DUNN, KATHERINE A. (*see* MCEACHRAN, JOHN D.)
DUNSON, DAVID B. (*see* DUNSON, WILLIAM A.)
DUNSON, WILLIAM A., CHRISTOPHER J. PARADISE, AND DAVID B. DUNSON. Inhibitory effect of low salinity on growth and reproduction of the estuarine sheepshead minnow, *Cyprinodon variegatus* 233
DUVALL, DAVID (*see* BEAUPRE, STEVEN J.)
EAKIN, RICHARD R., AND JOSEPH T. EASTMAN. New species of *Pogonophryne* (Pisces, Artedidraconidae) from the Ross Sea, Antarctica 1005
EASTMAN, JOSEPH T. (*see* EAKIN, RICHARD R.)
ECHELLE, ALICE F. (*see* ECHELLE, ANTHONY A.)
ECHELLE, ANTHONY A., AND ALICE F. ECHELLE. Evolutionary relationships of pupfishes in the *Cyprinodon eximus* complex (Atherinomorpha: Cyprinodontiformes) 852
ELIAZAR, PETER J. (*see* BJORNDAL, KAREN A.)
ETEROVICK, PAULA CABRAL, AND IVAN SAZIMA. New species of *Proceratophrys* (Anura: Leptodactylidae) from southeastern Brazil 159
EVANS, B. J., J. C. MORALES, M. D. PICKER, D. J. MELNICK, AND D. B. KELLEY. Absence of extensive introgression between *Xenopus gilli* and *Xenopus laevis laevis* (Anura: Pipidae) in southwestern Cape Province, South Africa 504
FARRAND, LIVINGSTON, III (*see* MADISON, DALE M.)
FELDHOFF, RICHARD C. (*see* HOUCK, LYNNE D.)
FELGENHAUER, BRUCE E. (*see* TOWNSEND, VICTOR R., JR.)
FENOCCHIO, ALBERTO S. (*see* LOPES, PABLO A.)
FERNANDES, CRISTINA COX. Sex-related morphological variation in two species of apteronotid fishes (Gymnotiformes) from the Amazon River Basin 730
FERNANDEZ-PEDROSA, VICTOR (*see* CASTILLA, AURORA M.)
FIGEROA-SANDI, RANDY (*see* SCHLAEPFER, MARTIN)
FILORAMO, NIRVANA I. (*see* TUCKER, JOHN K.)
FINK, WILLIAM L. (*see* REIS, ROBERTO E.)
FITE, KATHERINE V., ANDREW BLAUSTEIN, LYNN BENGSTON, AND HEATHER HEWITT. Evidence of retinal light damage in *Rana cascadae*: a declining amphibian species 906
FITZGERALD, LEE A. (*see* FROST, DARREL R.)
FLEISCHER, GUY W. (*see* TEWINKEL, LESLIE M.)
FLORES-VILLELA, OSCAR (*see* MENDOZA-QUIJANO, FERNANDO)
FORD, NEIL B. Contribution to West Indian herpetology: a tribute to Albert Schwartz, edited by Robert Powell and Robert W. Henderson 258
FOX, STANLEY F., JASON M. CONDER, AND ALLIE E. SMITH. Sexual dimorphism in the ease of tail autonomy: *Uta stansburiana* with and without previous tail loss 376
FROST, DARREL R., HEATHER M. CRAFTS, LEE A. FITZGERALD, AND TOM A. TITUS. Geographic variation, species recognition, and molecular evolution of cytochrome oxidase *I* in the *Tropidurus spinulosus* complex 839
FUIMAN, LEE A. (*see* HIGGS, DENNIS M.)
FUIMAN, LEE A., AND BRENDAN C. DELBOS. Developmental changes in visual sensitivity of red drum, *Sciaenops ocellatus* 936
FUIMAN, LEE A., KIRSTEN R. POLING, AND DENNIS M. HIGGS. Quantifying developmental progress for comparative studies of larval fishes 602
GAGEN, CHARLES J., RICHARD W. STANDAGE, AND JOSEPH N. STOECKEL. Ouachita madtom (*Noturus lachneri*) metapopulation dynamics in intermittent Ouachita mountain streams 874
GALAVANI, ALISON P. (*see* COLEMAN, RONALD M.)
GARCÍA-PARÍS, M., M. ALCOBENDAS, AND P. ALBERCH. Influence of the Guadalquivar River Basin on mitochondrial DNA evolution of *Salamandra salamandra* (Caudata: Salamandridae) from southern Spain 173
GARLAND, THEODORE, JR. (*see* DOHM, MICHAEL R.)
GELBERT, LARRY (*see* BUSHAR, LAURETTA M.)
GIARETTA, A. A., AND R. J. SAWAYA. Second species of *Psyllophryne* (Anura: Brachycephalidae) 985
GIBBONS, J. WHITFIELD, AND JUSTIN D. CONGDON. Joshua Laerm, 1942–1997 821
GILL, ANTHONY C. Homology of the anterior vertebrae, ribs, and dorsal fin pterygiophores and rays in congrogadine fishes (Perciformes: Pseudochromidae) 1041
GLENN, TRAVIS C., HERBERT C. DESSAUER, AND MICHAEL J. BRAUN. Characterization of micosatellite DNA loci in American alligators 591
GOLD, JOHN R. (*see* SCHMIDT, TIMOTHY R.)
GONZALEZ, ANA (*see* CASTILLA, AURORA M.)

GREENFIELD, DAVID W. *Halophryne hutchinsoni*: a new toadfish (Batrachoididae) from the Phillipine Islands and Pulau Waigeo, Indonesia 696
GREENFIELD, DAVID W., ARNOLD Y. SUZUMOTO, AND CHARLES CHONG. *Vitraria clarescens*, a junior synonym of the freshwater goby *Sicyopterus stimpsoni* (Teleostei: Gobiidae) 501
GRISMER, L. LEE (*see* HAZARD, LISA C.)
GRUBACH, PAUL G. (*see* COBURN, MILES M.)
GRUMBLES, JANICE S. (*see* PALMER, KEVIN S.)
GRUTTER, ALEXANDRA S., AND ROBERT POULIN. Cleaning of coral reef fishes by the wrasse *Labroides dimidiatus*: influence of client body size and phylogeny 120
GUARINO, FABIO M., FRANCO ANDREONE, AND FRANCESCO ANGELINI. Growth and longevity by skeletochronological analysis in *Mantidactylus microtympanum*, a rainforest anuran from southern Madagascar 194
GUFFEY, CARY, JAMES G. MAKINSTER, AND ROBERT G. JAEGER. Familiarity affects interactions between potentially courting territorial salamanders 205
GUYER, CRAIG (*see* ARESCO, MATTHEW J.)
HANKEN, JAMES, AND DAVID B. WAKE. Biology of tiny animals: systematics of the minute salamanders (*Thorius*: Plethodontidae) 312
HARDING, JAMES H. Status and conservation of turtles of the northeastern United States: a symposium, edited by Thomas F. Tyning 807
HARDING, JULIANA M., ALBERT J. BURKEY, AND CARL M. WAY. Habitat preferences of the rainbow darter, *Etheostoma caeruleum*, with regard to microhabitat velocity shelters 988
HARLOW, PETER S. (*see* SHINE, RICHARD)
HARRIS, JAMES D. (*see* CASTILLA, AURORA M.)
HARRIS, REID N. (*see* CARREÑO, CARRIE A.)
HARTEL, KARSTEN E., AND DEBORAH A. TRIANT. *Pteraclis fasciatus* Borodin 1930: a caristiid not a bramid (Teleostei: Caristiidae) 746
HAZARD, LISA C., VAUGHAN H. SHOEMAKER, AND L. LEE GRISMER. Salt gland secretion by an intertidal lizard, *Uta tumidarostra* 231
HEDGES, S. BLAIR (*see* THOMAS, RICHARD)
HELENURUM, KAIUS (*see* MABEE, PAULA M.)
HELVIK, JON VIDAR (*see* MABEE, PAULA M.)
HEPPELL, SELINA S. Application of life-history theory and population model analysis to turtle conservation 367
HEWITT, HEATHER (*see* FITE, KATHERIN V.)
HIGGS, DENNIS M. (*see* FUIMAN, LEE A.)
HIGGS, DENNIS M., AND LEE A. FUIMAN. Associations between sensory development and ecology in three species of clupeoid fish 135
HILLIS, DAVID M. (*see* CHIPPENDALE, PAUL T.)
HOPKINS, CARL D. (*see* TEUGELS, GUY G.)
HOUCK, LYNNE D., ALISON M. BELL, NANCY L. REAGAN-WALLIN, AND RICHARD C. FELDHOFF. Effects of experimental delivery of male courtship pheromones on the timing of courtship in a terrestrial salamander, *Plethodon jordani* (Caudata: Plethodontidae) 214
HOUDE, KATHERYN A. (*see* JENSSEN, THOMAS A.)
HUANG, WEN-SAN. Reproductive cycles of the grass lizard, *Takydromus hsuehshanensis*, with comments on reproductive patterns of lizards from the central high elevation area of Taiwan 866
INEICH, IVAN (*see* SCHWANER, TERRY D.)
IWATSUKI, YUKIO (*see* KIMURA, SEISHI)
IWATSUKI, YUKIO, SEISHI KIMURA, AND TETSUO YOSHINO. Redescription of *Gerres erythrourus* (Bloch, 1791), a senior synonym of *G. abbreviatus* Bleeker, 1850 (Teleostei: Perciformes: Gerreidae) 165
JACOBSON, ELLIOTT R. (*see* BJORNDAL, KAREN A.)
JAEGER, ROBERT G. (*see* TOWNSEND, VICTOR R., JR.)
JAEGER, ROBERT G. (*see* GUFFEY, CARY)
JANSSEN, JOHN, AND JIM CORCORAN. Distance determination via the lateral line in the mottled sculpin 657
JANZEN, FREDRIC J. (*see* TUCKER, JOHN K.)
JENSSEN, THOMAS A., KATHERYN A. HOUDE, AND KENDALL G. TANEY. Size-related habitat use by nonbreeding *Anolis carolinensis* lizards 774
KATULA, RAYMOND S., AND LAWRENCE M. PAGE. Nest association between a large predator, the bowfin (*Amia calva*) and its prey, the golden shiner (*Notemigonus crysoleucas*) 220
KAVANAUGH, KATHRYN. Notes on the frequency and function of glancing behavior in juvenile *Acanthochromis* (Pomacentridae) 493
KAY, E. ALISON. Global biogeography, by John C. Briggs 524
KELLEY, D. B. (*see* EVANS, B. J.)
KIDO, YUKO (*see* NAKAJIMA, TSUNEO)
KIESECKER, JOSEPH M. Amphibians in decline: Canadian studies of a global problem, edited by David M. Green 813
KIMURA, SEISHI (*see* IWATSUKI, YUKIO)

KIMURA, SEISHI, YUKIO IWATSUKI, AND JUN-ICHI KOJIMA. Descriptive morphology of the juvenile stages of two Indo-Pacific carangids, *Scomberoides lysan* and *Scomberoides tol* (Pisces: Perciformes) 510
KING, RICHARD B. (*see* QUERAL-REGIL, ALEJANDRO)
KINNEY, OWEN M. (*see* ROWE, CHRISTOPHER L.)
KOJIMA, JUN-ICHI (*see* KIMURA, SEISHI)
KONSTANTINOU, HERA, AND JOSEPH R. COZZI. *Galeus springeri*, a new species of sawtail catshark from the Caribbean Sea (Chondrichthyes, Scyliorhinidae) 151
KWEON, HEE-S., EUN-H. PARK, AND NICOLAUS PETERS. Spermatozoon ultrastructure in the internally self-fertilizing hermaphroditic teleost, *Rivulus marmoratus* (Cyprinodontiformes, Rivulidae) 1101
LAGUEUX, CYNTHIA J. (*see* BASS, ANNA L.)
LATORRE, AMPARO (*see* CASTILLA, AURORA M.)
LAZELL, JAMES. New salamander of the genus *Plethodon* from Mississippi 967
LEFCORT, HUGH. Chemically mediated fright response in southern toad (*Bufo terrestris*) tadpoles 445
LITZGUS, JACQUELINE D., AND RONALD J. BROOKS. Testing the validity of counts of plastral scute rings in spotted turtles, *Clemmys guttata* 222
LOPES, PABLO A., ANTONIO J. ALBERDI, JORGE A. DERGAM, AND ALBERTO S. FENOCCHIO. Cytotaxonomy of *Hoplias malabaricus* (Osteichthyes, Erythrinidae) in the Aguapey River (Province of Corrientes, Argentina) 485
LÓPEZ, PILAR (*see* MARTIN, JOSÉ)
LOSOS, JONATHAN B., AND LING-RU CHU. Examination of factors potentially affecting dewlap size in Caribbean anoles 430
LUE, KUANG-YANG (*see* CHEN, TIEN-HIS)
LUE, KUANG-YANG (*see* TSUJI, HIROSHI)
MABEE, PAULA M., DIANE S. CUA, STEVEN B. BARLOW, AND JON VIDAR HELVIK. Morphology of the hatching glands in *Betta splendens* (Teleostei: Perciformes) 1021
MABEE, PAULA M., ERON ALDRIDGE, EDWARD WARREN, AND KAIUS HELENURM. Effects of clearing and staining on fish length 346
MADISON, DALE M., AND LIVINGSTON FARRAND III. Habitat use during breeding and emigration in radio-implanted tiger salamanders, *Ambystoma tigrinum* 402
MAKINSTER, JAMES G. (*see* GUFFEY, CARY)
MARCO, A., AND V. PÉREZ-MELLADO. Influence of clutch date on egg and hatchling sizes in the annual clutch of *Lacerta schreiberi* (Sauria, Lacertidae) 145
MARKS, SHARYN B., AND ANDRES COLLAZO. Direct development in *Desmognathus aeneus* (Caudata: Plethodontidae): a staging table 637
MARSH, PAUL C. (*see* DOUGLAS, MICHAEL E.)
MARTIN, JOSÉ, AND PILAR LÓPEZ. Shifts in microhabitat use by the lizard *Psammodromus algirus*: responses to seasonal changes in vegetation structure 780
MARTIN, KAREN L. M. Air-breathing fishes: evolution, diversity, and adaptation, by Jeffrey B. Graham 254
MATHIS, ALICIA (*see* WOODY, DAVID R.)
MATTINGLY, HAYDEN T. The diversity of fishes, by Gene S. Helfman, Bruce B. Collette, and Douglas E. Facey 536
MAZEROLL, ANTHONY INDER, AND W. LINN MONTGOMERY. Daily migrations of a coral reef fish in the Red Sea (Gulf of Aqaba, Israel): initiation and orientation 893
MCCOSKER, JOHN E. The fishes of the Galápagos Islands, by Jack S. Grove and Robert J. Lavenberg 809
MCEACHRAN, JOHN D., AND KATHERINE A. DUNN. Phylogenetic analysis of skates, a morphologically conservative clade of elasmobranchs (Chondrichthyes: Rajidae) 271
MEANS, D. BRUCE. Snakes in question: the Smithsonian answer book, by Carl H. Ernst and George R. Zug 257
MEASEY, G. JOHN. Terrestrial prey capture in *Xenopus laevis* 787
MELNICK, D. J. (*see* EVANS, B. J.)
MENDOZA-QUIJANO, FERNANDO, OSCAR FLORES-VILLELA, AND JACK W. SITES, JR. Genetic variation, species status, and phylogenetic relationships in rose-bellied lizards (*variabilis* group) of the genus *Sceloporus* (Squamata: Phrynosomatidae) 354
MERRETT, NIGEL R. Norman Bertram Marshall 1915–1996 263
MEYERS, RON A., AND BRETT M. CLARKE. How do flap-necked chameleons move their flaps? 759
MILLSTEIN, JOSHUA. Observations of skin sloughing in the crested sculpin (*Blepsias bilobus*) 743
MITCHELL, REBECCA (*see* VAN DER HEIDEN, ALBERT M.)
MONTGOMERY, W. LINN (*see* MAZEROLL, ANTHONY INDER)
MONTGOMERY, W. LINN. Shelby Delos Gerking, 1918–1998 822
MOORE, MICHAEL K. (*see* TOWNSEND, VICTOR R., JR.)
MORALES, J. C. (*see* EVANS, B. J.)
MORRISON, B. J. (*see* BARKER, L. A.)
MOTTA, PHILIP J. (*see* CLIFTON, KARI B.)
MOYA, ANDRES (*see* CASTILLA, AURORA M.)

MOYLE, PETER B. Fisheries conservation and management, by Michael R. Ross 252
MULVEY, MARGARET (*see* PALMER, KEVIN S.)
NAKABO, TETSUJI, HIROSHI SENOU, AND MASAHIRO AIZAWA. New species of *Pseudocalliurichthys* (Teleostei: Callionymidae) from Iriomote Island, Japan 451
NAKAJIMA, TSUNEO, YOSUKE TAINAKA, JUNZO UCHIYAMA, AND YUKO KIDO. Pharyngeal tooth remains of the genus Cyprinus, including an extinct species, from the Akanoi Bay ruins 1050
NEILL, WILLIAM H. (*see* ANDERSON, ALLISON A.)
NUSSBAUM, RONALD A., AND CHRISTOPHER J. RAXWORTHY. New long-tailed *Mabuya* Fitzinger from Lokobe Reserve, Nosy Be, Madagascar (Reptilia: Squamata: Scincidae) 114
NUSSBAUM, RONALD A., FRANCO ANDREONE, AND CHRISTOPHER J. RAXWORTHY. New rain-forest species of *Pseudoxyrhopus* Gunther (Squamata: Colubridae) from northern Madagascar 128
O'BRIEN, JOHN (*see* BLINN, DEAN W.)
O'LEILE, JACK (*see* BEAUPRE, STEVEN J.)
OTA, HIDETOSHI, SZU-LUNG CHEN, AND GAUS SHANG. *Japalura luei*: a new agamid lizard from Taiwan (Reptilia: Squamata) 649
PAGE, LAWRENCE M. (*see* KATULA, RAYMOND S.)
PALADINO, FRANK V. (*see* BINCKLEY, CHRISTOPHER A.)
PALMER, KEVIN S., DAVID C. ROSTAL, JANICE S. GRUMBLES, AND MARGARET MULVEY. Long-term sperm storage in the desert tortoise (*Gopherus agassizii*) 702
PARADISE, CHRISTOPHER J. (*see* DUNSON, WILLIAM A.)
PARK, EUN-H. (*see* KWEON, HEE-S.)
PARSONS, GLENN R. (*see* BOYD, GINNY L.)
PATEK, SHEILA (*see* BRAINERD, ELIZABETH L.)
PATTERSON, COLIN. Comments on basal teleosts and teleostean phylogeny, by Gloria Arratia 1107
PAUKSTIS, GARY L. (*see* TUCKER, JOHN K.)
PAULISSEN, MARK A. Laboratory study of escape tactics of parthenogenetic and gonochoristic *Cnemidophorus* from southern Texas 240
PÉREZ-MELLADO, V. (*see* MARCO, A.)
PETERS, NICOLAUS (*see* KWEON, HEE-S.)
PEZOLD, FRANK. Three new species of *Oxyurichthys* (Teleostei: Gobiidae) from the Indian and Pacific oceans 687
PHILIPS, JOHN A. Monitor lizards: natural history, biology, and husbandry, by Daniel Bennett 812
PICKER, M. D. (*see* EVANS, B. J.)
PIETSCH, THEODORE W. (*see* BERTELSEN, E.)
PLATANIA, STEVEN P., AND CHRISTOPHER S. ALTENBACH. Reproductive strategies and egg types of seven Rio Grande Basin cyprinids 559
POLING, KIRSTEN R. (*see* FUIMAN, LEE A.)
POLIVKA, K. M., AND M. A CHOTKOWSKI. Recolonization of experimentally defaunated tidepools by northeast Pacific intertidal fishes 456
POLY, WILLIAM J., AND MARK S. SABAJ. Lack of evidence for the validity of *Rhinichthys bowersi* (Cyprinidae) 1081
POULIN, ROBERT (*see* GRUTTER, ALEXANDRA S.)
PRADETTO, THOMAS (*see* BLINN, DEAN W.)
PREGILL, GREGORY. Squamate reptiles from prehistoric sites in the Mariana Islands 64
PRICE, ANDREW H. (*see* CHIPPENDALE, PAUL T.)
PROPST, DAVID L. (*see* RIDDLE, BRETT R.)
QUERAL-REGIL, ALEJANDRO, AND RICHARD B. KING. Evidence for phenotypic plasticity in snake body size and relative head dimensions in response to amount and size of prey 423
RAXWORTHY, CHRISTOPHER J. (*see* NUSSBAUM, RONALD A.)
RAXWORTHY, CHRISTOPHER J. (*see* NUSSBAUM, RONALD A.)
REAGAN-WALLIN, NANCY L. (*see* HOUCK, LYNNE D.)
REINERT, HOWARD K. (*see* BUSHAR, LAURETTA M.)
REIS, ROBERTO E., MIRIAM L. ZELDITCH, AND WILLIAM L. FINK. Ontogenetic allometry of body shape in the neotropical catfish *Callichthys* (Teleostei: Siluriformes) 177
REYER, HEINZ-ULRICH (*see* BARANDUN, JONAS)
RIDDLE, BRETT R., DAVID L. PROPST, AND TERRY L. YATES. Mitochondrial DNA variation in Gila trout *Oncorhynchus gilae*: implications for management of an endangered species 31
ROBINS, R. RICHARD (*see* SHAW, KATE A.)
ROCHA, CARLOS FREDERICO DUARTE (*see* VRCIBRADIC, DAVOR)
RODRÍGUEZ-ROBLES, JAVIER A. Alternative perspectives on the diet of gopher snakes (*Pituophis catenifer*, Colubridae): literature records versus stomach contents of wild and museum specimens 463
ROSENFIELD, JONATHAN A. Detection of natural hybridization between pink salmon (*Oncorhynchus gorbuscha*) and chinook salmon (*Oncorhynchus tshawytscha*) in the Laurentian Great Lakes using meristic, morphological, and color evidence 706
ROSTAL, DAVID (*see* WIBBELS, THANE)

ROSTAL, DAVID C. (*see* PALMER, KEVIN S.)
ROWE, CHRISTOPHER L., OWEN M. KINNEY, AND JUSTIN D. CONGDON. Oral deformities in tadpoles of the bullfrog (*Rana catesbiana*) caused by conditions in a polluted habitat 244
RUSSELL, KYLIE J. (*see* THOMPSON, MICHAEL B.)
SABAJ, MARK S. (*see* POLY, WILLIAM J.)
SAVITSKY, ALAN H. (*see* VELHAGEN, WILLIAM A., JR.)
SAWAYA, R. J. (*see* GIARETTA, A. A.)
SAZIMA, IVAN (*see* ETEROVICK, PAULA CABRAL)
SCHLAEPFER, MARTIN, AND RANDY FIGEROA-SANDI. Female reciprocal calling in a Costa Rican leaf-litter frog, *Eleutherodactylus podiciferus* 1076
SCHMIDT, TIMOTHY R., JOSEPH P. BIELAWSKI, AND JOHN R. GOLD. Molecular phylogenetics and evolution of the cytochrome *b* gene in the cyprinid genus *Lythrurus* (Actinopterygii: Cypriniformes) 14
SCHWANER, TERRY D., AND IVAN INEICH. *Emoia cyanura* and *E. impar* (Lacertilia, Scincidae) are partially syntopic in American Samoa 247
SCHWENK, KURT. Comparative osteological examinations of geckonids, eublepharids, and uroplatids, by *V. Wellborn* 260
SECOR, STEPHEN M. Snakes: the evolution of mystery in nature, by Harry W. Greene 523
SENOU, HIROSHI (*see* NAKABO, TETSUJI)
SHANG, GAUS (*see* OTA, HIDETOSHI)
SHAW, KATE A., AND R. RICHARD ROBINS. Collection building in ichthyology and herpetology, edited by Theodore W. Pietsch and William D. Anderson Jr. 533
SHEEN, JUDY P., AND HOWARD H. WHITEMAN. Head and body size relationships in polymorphic tiger salamander larvae from Colorado 1089
SHINE, RICHARD, WILLIAM R. BRANCH, PETER S. HARLOW, AND JONATHAN K. WEBB. Reproductive biology and food habits of horned adders, *Bitis caudatis* (Viperidae), from southern Africa 391
SHOEMAKER, VAUGHAN H. (*see* HAZARD, LISA C.)
SITES, JACK W., JR. (*see* MENDOZA-QUIJANO, FERNANDO)
SMITH, ALLIE E. (*see* FOX, STANLEY F.)
SPOTILA, JAMES R. (*see* BINCKLEY, CHRISTOPHER A.)
ST. MARY, COLETTE M. Characteristic gonad structure in the gobiid genus *Lythrypnus* with comparisons to other hermaphroditic gobies 720
STANDAGE, RICHARD W. (*see* GAGEN, CHARLES J.)
STOECKEL, JOSEPH N. (*see* GAGEN, CHARLES J.)
SUZUMOTO, ARNOLD Y. (*see* GREENFIELD, DAVID W.)
TAINAKA, YOSUKE (*see* NAKAJIMA, TSUNEO)
TANEY, KENDALL G. (*see* JENSSEN, THOMAS A.)
TARANO, ZAIDO. Cover and ambient light influence nesting preferences in the Tungara frog *Physalaemus pustulosus* 250
TEUGELS, GUY G., AND CARL D. HOPKINS. Morphological and osteological evidence for the generic position of *Mormyrus kingsleyae* in the genus *Brienomyrus* (Teleostei: Mormyridae) 199
TEWINKEL, LESLIE M., AND GUY W. FLEISCHER. Pressure as a limit to bloater (*Coregonus hoyi*) vertical migration 1060
THOMAS, RICHARD, AND S. BLAIR HEDGES. New anguid lizard (*Diploglossus*) from Cuba 97
THOMPSON, GRAHAM G., AND PHILIP C. WITHERS. Standard evaporative water loss and metabolism of juvenile *Varanus mertensi* (Squamata: Varanidae) 1054
THOMPSON, J. SCOTT, AND BRIAN I. CROTHER. Allozyme variation among disjunct populations of the Florida green watersnake (*Nerodia floridiana*) 715
THOMPSON, MICHAEL B. (*see* DOUGHTY, PAUL)
THOMPSON, MICHAEL B., AND KYLIE J. RUSSELL. Metabolic cost of development in one of the world's smallest lizard eggs: implications for physiological advantages of the amniote egg 1016
TILLEY, STEPHEN G. Morphologic and genetic studies of the European plethodontid salamanders: taxonomic inferences (genus *Hydromantes*), by Benedetto Lanza, Vincenzo Caputo, Giuseppe Nascetti, and Luciano Bullini 526
TITUS, TOM A. (*see* FROST, DARREL R.)
TORRES, JOSEPH J. Deep-sea fishes. Fish physiology, edited by David J. Randall and Anthony P. Farrell 805
TOWNSEND, CAROL R. (*see* DOHM, MICHAEL R.)
TOWNSEND, VICTOR R., JR., AND ROBERT G. JAEGER. Territorial conflicts over prey: domination by large male salamanders 725
TOWNSEND, VICTOR R., JR., BRUCE E. FELGENHAUER, AND MICHAEL K. MOORE. Quantitative study of the adult male dentition of the red-backed salamander, *Plethodon cinereus* 472
TRIANT, DEBORAH A. (*see* HARTEL, KARSTEN E.)
TSUJI, HIROSHI, AND KUANG-YANG LUE. Temporal aspects of the amplexus and oviposition behavior of the fanged frog *Rana kuhlii* from Taiwan 769
TUCKER, ANTON D. The biology of sea turtles, edited by Peter L. Lutz and John A. Musick 803

TUCKER, JOHN K., NIRVANA I. FILORAMO, GARY L. PAUKSTIS, AND FEDRIC J. JANZEN. Residual yolk in captive and wild-caught hatchlings of the red-eared slider turtle (*Trachemys scripta elegans*) 488
TYUS, HAROLD M. Early records of the endangered fish *Gila cypha* Miller from the Yampa River of Colorado with notes on its decline 190
UCHIYAMA, JUNZO (*see* NAKAJIMA, TSUNEO)
VALESKI, JENNIFER J. (*see* BJORNDAL, KAREN A.)
VAN DER HEIDEN, ALBERT M., AND REBECCA MITCHELL. Rediscovery and description of the flounder *Syacium maculiferum* (Garman, 1899): an endemic species of Cocos Island, Costa Rica (Pleuronectiformes: Paralichthyidae) 753
VELHAGEN, WILLIAM A., JR., AND ALAN H. SAVITSKY. Evolution of embryonic growth in thamnophiine snakes 549
VIGLE, GREGORY O. Tropical forest remnants: ecology, management, and conservation of fragmented communities, edited by W. F. Laurance and R. O. Bierregaard Jr 815
VITT, LAURIE J., AND TERESA C. S. AVILA-PIRES. Ecology of two sympatric species of *Neusticurus* (Sauria: Gymnophthalmidae) in the western Amazon of Brazil 570
VRCIBRADIC, DAVOR, AND CARLOS FREDERICO DUARTE ROCHA. Reproductive cycle and life-history traits of the viviparous skink *Mabuya frenata* in southeastern Brazil 612
WAKE, DAVID B. (*see* HANKEN, JAMES)
WALLS, SUSAN C. Density dependence in a larval salamander: the effects of interference and food limitation 926
WARREN, EDWARD (*see* MABEE, PAULA M.)
WAY, CARL M. (*see* HARDING, JULIANA M.)
WEBB, JACQUELINE F. Laterophysic connection: a unique link between the swimbladder and the lateral line system in *Chaetodon* (Perciformes: Chaetodontidae) 1032
WEBB, JONATHAN K. (*see* SHINE, RICHARD)
WEBER, AXEL, AND HORST WILKENS. *Rhamdia macuspanensis*: a new species of troglobitic pimelodid catfish (Siluriformes; Pimelodidae) from a cave in Tabasco, Mexico 998
WELLS, KENTWOOD D. Amphibians and reptiles of Trinidad and Tobago, by John C. Murphy 531
WERNER, YEHUDAH L. (*see* ANGILLETTA, MICHAEL J., JR.)
WHITE, JAMES (*see* BLINN, DEAN W.)
WHITEMAN, HOWARD H. (*see* SHEEN, JUDY P.)
WIBBELS, THANE, DAVID ROSTAL, AND RICHARD BYLES. High pivotal temperatures in the sex determination of the olive ridley sea turtle, *Lepidochelys olivacea*, from Play Nancite, Costa Rica 1086
WICKS, B. J. (*see* BARKER, L. A.)
WILKENS, HORST (*see* WEBER, AXEL)
WILSON, KATHRYNE S. (*see* BINCKLEY, CHRISTOPHER A.)
WILSON, LARRY DAVID. A field guide to the life and times of Roger Conant, by Roger Conant 802
WINTERBOTTOM, RICHARD (*see* YANG, JUN-XING)
WITHERS, PHILIP C. (*see* THOMPSON, GRAHAM G.)
WOOD, ROB. Molecular systematics of fishes, edited by Thomas D. Kocher and Carol A. Stepien 530
WOODY, DAVID R., AND ALICIA MATHIS. Acquired recognition of chemical stimuli from an unfamiliar predator: associative learning by adult newts, *Notophthalmus viridescens* 1027
WRONSKI, THOMAS J. (*see* BJORNDAL, KAREN A.)
YAN, HONG Y. Underwater bioacoustics: behavioural, environmental, and evolutionary perspectives, by Michael L. Fine, Marco Lugli, Danilo Mainardi, Gianni Pavan, and Patrizia Torricelli 538
YANG, JUN-XING, AND RICHARD WINTERBOTTOM. Phylogeny and zoogeography of the cyprinid genus *Epalzeorhynchos* Bleeker (Cyprinidae: Ostariophysi) 48
YATES, TERRY L. (*see* RIDDLE, BRETT R.)
YOSHINO, TETSUO (*see* IWATSUKI, YUKIO)
ZELDITCH, MIRIAM L. (*see* REIS, ROBERTO E.)